



VOLTAGE

24V

CURRENT

10.0A

POWER

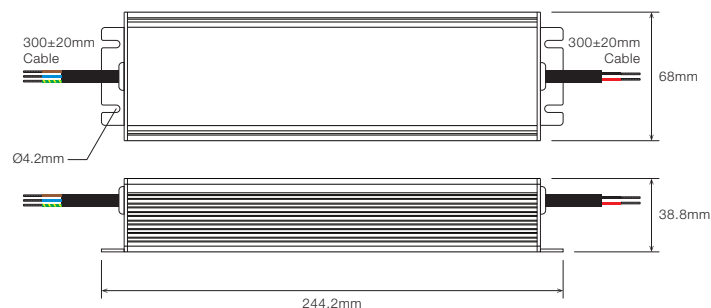
240W

Mean Well 240W Single Output Switching Power Supply

FEATURES

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Three in one dimming function (1–10VDC or PWM signal or resistance)
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 7 years warranty

DIMENSIONS



■ TECHNICAL SPECIFICATIONS

Model		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54	
Output	DC Voltage	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	Constant Current Region ⁴	6 – 12V	7.5 – 15V	10 – 20V	12 – 24V	15 – 30V	18 – 36V	21 – 42V	24–48V	27–54V	
	Rated Current	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A	
	Rated Power	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W	
	Ripple & Noise (max.) ²	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
	Voltage Adj. Range ³	11.2 – 12.8V	14 – 16V	18.6 – 21.4V	22.4 – 25.6V	28 – 32V	33.5 – 38.5V	39 – 45V	44.8 – 51.2V	50 – 57V	
	Current Adj. Range	Can be adjusted by internal potentiometer A type only									
		8 – 16A	7.5 – 15A	6 – 12A	5 – 10A	4 – 8A	3.3 – 6.7A	2.86 – 5.72A	2.5 – 5A	2.23 – 4.45A	
	Voltage Tolerance ³	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Regulation	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Setup, Rise Time ³	1000ms, 80ms/115VAC		500ms, 58ms/230VAC at full load							
Hold Up Time	15ms at full load		230VAC /115VAC								
Input	Voltage Range	90 – 305VAC		127 – 431VDC							
	Frequency Range	47 – 63Hz									
	Power Factor	PF>0.98/115VAC, PF>0.95/230VAC at full load (Please refer to “Power Factor Characteristic” curve)									
	Total Harmonic Distortion	THD< 20% when output loading ≥ 50% at 115VAC/230VAC									
	Efficiency (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%	
	AC Current (Typ.)	4A / 115VAC		2A / 230VAC		1.2A / 277VAC					
	Inrush Current (Typ.)	COLD START 75A (twidth=570μs measured at 50% Ipeak) at 230VAC									
Leakage Current	<0.75mA / 277VAC										
Protection	Over Current ⁴	95 – 108%									
		Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed									
	Over Voltage	13.5 – 18V	17.5 – 21.5V	23.5 – 27.5V	27 – 34V	33 – 39V	43 – 49V	48 – 54V	55 – 63V	60 – 67V	
	Over Temperature	Protection type : Shut down and latch off o/p voltage, re-power on to recover									
Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down										
Environment	Working Temp.	-40 – +70°C (Refer to “Derating Curve”)									
	Working Humidity	20 – 95% RH non-condensing									
	Storage Temp., Humidity	-40 – +80°C, 10 – 95% RH									
	Temp. Coefficient	±0.03%/°C (0 – 50°C)									
	Vibration	10 – 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
Safety & EMC	Safety Standards ⁷	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independent (except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved									
	Withstand Voltage	I/P-O/P:3.75KVAC		I/P-FG:2KVAC		O/P-FG:1.5KVAC					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC Emission	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥50% load) ; EN61000-3-3									
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B									
Others	MTBF	207.9Khrs min.		MIL-HDBK-217F (25°C)							
	Dimension (LxWxH)	244.2 x 68 x 38.8mm (HLG-240H-Blank/A/B)				251 x 68 x 38.8mm (HLG-240H-C)					
	Packing	1.3Kg; 12pcs / 16.6Kg / 0.84cu.ft (HLG-240H-Blank/A/B)				1.23Kg; 12pcs / 15.8Kg / 1.16cu.ft (HLG-240H-Blank/A/B)					

¹ All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

² Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor.

³ Tolerance : includes set up tolerance, line regulation and load regulation.

⁴ Constant current operation region is within 50% – 100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.

⁵ Derating may be needed under low input voltages. Please check the static characteristics in Meanwell's specification sheet for more details.

⁶ A type only and C type only.

⁷ Safety and EMC design refer to EN60598-1, subject 8750(UL) CNS15233, GB7000.1, FCC part18.

⁸ Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.

⁹ The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

¹⁰ To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.

■ ORDERING EXAMPLE

PWR-HLG240W-24

IP67 rated. Cable for I/O connection

PWR-HLG240W-24-A

A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.

PWR-HLG240W-24-B

B: IP67 rated. Constant current level adjustable through output cable with 1–10VDC or 10V PWM signal or resistance.

PWR-HLG240W-24-C

C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.